

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 March 2004 (18.03.2004)

PCT

(10) International Publication Number
WO 2004/022054 A1

(51) International Patent Classification⁷: A61K 31/415,
31/445

Ashland, MA 01721 (US). BORIACK-SJODIN, Paula
[US/US]; 46 Florence Road, Waltham, MA 02453 (US).

(21) International Application Number:
PCT/US2003/027722

(74) Agent: GARRETT, Arthur, S.; Finnegan, Henderson,
Farbrow Garrett & Dunner, L.L.P., 1300 I Street, N.W.,
Washington, DC 20005-3315 (US).

(22) International Filing Date:
5 September 2003 (05.09.2003)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/408,811 6 September 2002 (06.09.2002) US

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): BIO-
GEN, INC. [US/US]; 14 Cambridge Center, Cambridge,
MA 02142 (US).

(72) Inventors; and

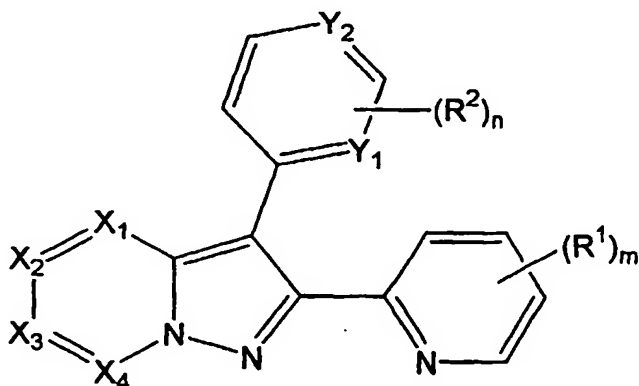
(75) Inventors/Applicants (*for US only*): LEE, Wen-Cherng
[US/US]; 192 Sprin Street, Lexington, MA 02421 (US).
CARTER, Mary, Beth [US/US]; 179 Wright Street,
Arlington, MA 02474 (US). SUN, Lihong [US/US]; 15
Mystic View Terrace, Arlington, MA 02474 (US). LYNE,
Paul [IE/US]; 13 Pine Ridge Road, Arlington, MA 02476
(US). CHUAQUI, Claudio [CA/US]; 30 Chandler Street,
Apt. #1, Somerville, MA 02144 (US). ZHENG, Zhongli
[US/US]; 640 Marrett Road, Lexington, MA 02421 (US).
SINGH, Jushwinder [GB/US]; 94 Heritage Avenue,

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PYRAZOLOPYRIDINES AND METHODS OF MAKING AND USING THE SAME



(I)

(57) **Abstract:** Compounds of formula I possess
unexpectedly high affinity for Alk 5 and/or Alk
4, and can be useful as antagonists thereof for
preventing and/or treating numerous diseases,
including fibrotic disorders. In one embodiment,
the invention features a compound of formula I: